

Preparation of Papers for International Journal of Research and computational Technology

First Author, Second Author, Third Author

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1 INTRODUCTION

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2 PROCEDURE FOR PAPER SUBMISSION

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If you are using Word, use either the Microsoft Equation Editor or the MathType add-on (<http://www.mathtype.com>) for equations in your paper (Insert | Object | Create New | Microsoft Equation or MathType Equation). “Float over text” should not be selected.

Number equations consecutively with equation numbers in parentheses flush with the right margin, as in (1). First, use the equation editor to create the equation. Then, select the “Equation” markup style. Press the tab key and write the equation number in parentheses. To make your equations more compact, you may use the solidus (/), the exp function, or appropriate exponents. Use parentheses to avoid ambiguities in denominators. Punctuate equations when they are part of a sentence, as in

$$\int_0^{r_2} F(r, \varphi) dr d\varphi = [\sigma r_2 / (2\mu_0)] \cdot \int_0^\infty \exp(-\lambda |z_j - z_i|) \lambda^{-1} J_1(\lambda r_2) J_0(\lambda r_i) d\lambda \quad (1)$$

Be sure that the symbols in your equation have been defined before the equation appears or immediately following. Italicize symbols (*T* might refer to temperature, but *T* is the unit tesla). Per JRCT, please refer to “(1),” not “Eq. (1)” or “equation (1),” except at the beginning of a sentence: “Equation (1) shows” Also see *The Handbook of Writing for the Mathematical Sciences*, 1993. Published by the Society for Industrial and Applied Mathematics, this handbook provides some helpful information about math typography and other stylistic matters. For further information about typesetting mathematical equations, please visit the JRCT styl guide: <http://www.ijrct.org>.

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6 HELPFUL HINTS

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TABLE 1
UNITS FOR MAGNETIC PROPERTIES

| Symbol | Quantity | Conversion from Gaussian and CGS EMU to SI ^a |
|----------------|---|---|
| Φ | magnetic flux | 1 Mx $\rightarrow 10^{-8}$ Wb = 10^{-8} V·s |
| B | magnetic flux density, magnetic induction | 1 G $\rightarrow 10^{-4}$ T = 10^{-4} Wb/m ² |
| H | magnetic field strength | 1 Oe $\rightarrow 10^3/(4\pi)$ A/m |
| m | magnetic moment | 1 erg/G = 1 emu $\rightarrow 10^{-3}$ A·m ² = 10^{-3} J/T |
| M | magnetization | 1 erg/(G·cm ³) = 1 emu/cm ³ $\rightarrow 10^3$ A/m |
| $4\pi M$ | magnetization | 1 G $\rightarrow 10^3/(4\pi)$ A/m |
| σ | specific magnetization | 1 erg/(G·g) = 1 emu/g $\rightarrow 1$ A·m ² /kg |
| J | magnetic dipole moment | 1 erg/G = 1 emu $\rightarrow 4\pi \times 10^{-10}$ Wb·m |
| J | magnetic polarization | 1 erg/(G·cm ³) = 1 emu/cm ³ $\rightarrow 4\pi \times 10^{-4}$ T |
| χ, κ | susceptibility | 1 $\rightarrow 4\pi$ |
| χ_g | mass susceptibility | 1 cm ³ /g $\rightarrow 4\pi \times 10^{-3}$ m ³ /kg |
| μ | permeability | 1 $\rightarrow 4\pi \times 10^{-7}$ H/m = $4\pi \times 10^{-7}$ Wb/(A·m) |
| μ_r | relative permeability | $\mu \rightarrow \mu_r$ |
| w, W | energy density | 1 erg/cm ³ $\rightarrow 10^{-1}$ J/m ³ |
| N, D | demagnetizing factor | 1 $\rightarrow 1/(4\pi)$ |

Statements that serve as captions for the entire table do not need footnote letters.

^aGaussian units are the same as cgs emu for magnetostatics; Mx = maxwell,

G = gauss, Oe = oersted; Wb = weber, V = volt, s = second, T = tesla, m =

meter, A = ampere, J = joule, kg = kilogram, H = henry.

- Items will be punctuated as sentences where it is appropriate.
- Items will be numbered, followed by a period.

6.5 Theorems and Proofs

Theorems and related structures, such as axioms, corollaries, and lemmas, are formatted using a hanging indent paragraph. They begin with a title and are followed by the text, in italics.

Theorem 1. *Theorems, corollaries, lemmas, and related structures follow this format. They do not need to be numbered, but are generally numbered sequentially.*

Proofs are formatted using the same hanging indent format. However, they are not italicized.

Proof. The same format should be used for structures such as remarks, examples, and solutions (though these would not have a Q.E.D. box at the end as a proof does).

7 END SECTIONS

7.1 Appendices

Appendices, if needed, appear before the acknowledgment. In the event multiple appendices are required, they will be labeled "Appendix A," "Appendix B," etc. If an article does not meet submission length requirements, authors are strongly encouraged to make their appendices supplemental material.

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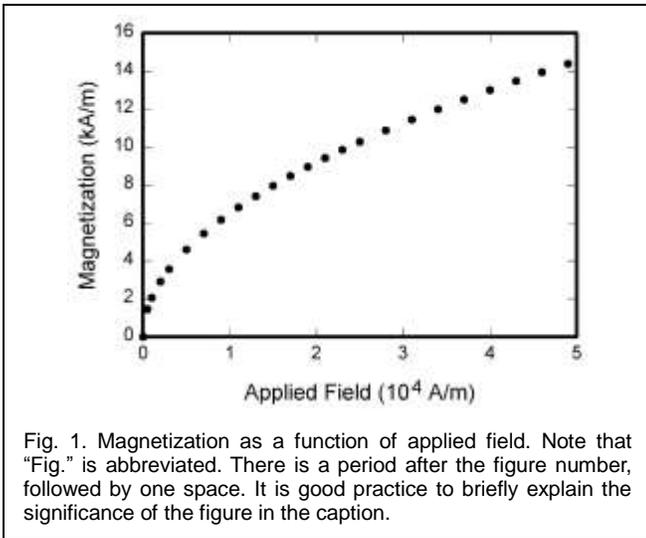


Figure axis labels are often a source of confusion. Use words rather than symbols. As an example, write the quantity "Magnetization," or "Magnetization M ," not just " M ." Put units in parentheses. Do not label axes only with units. As in Fig. 1, for example, write "Magnetization (A/m)" or "Magnetization (A·m⁻¹)," not just "A/m." Do not label axes with ameter, A = ampere, J = joule, kg = kilogram, H = henry.

Multipliers can be especially confusing. Write "Magnetization (kA/m)" or "Magnetization (10³ A/m)." Do not write "Magnetization (A/m) × 1,000" because the reader would not know whether the top axis label in Fig. 1 meant 16,000 A/m or 0.016 A/m. Figure labels should be legible, approximately 8 to 12 point type. When creating your graphics, especially in complex graphs and charts, please ensure that line weights are thick enough that when reproduced at print size, they will still be legible. We suggest at least 1 point.

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7.2 Acknowledgments

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7.3 References

Unfortunately, the Computer Society document translator cannot handle automatic endnotes in Word; therefore, type the reference list at the end of the paper using the “References” style. See the JRCT’s style for reference formatting at: <http://www.JRCT.org> [transref.htm](http://www.JRCT.org). The order in which the references are submitted in the manuscript is the order they will appear in the final paper, i.e., references submitted nonalphabetized will remain that way.

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7.3 Additional Formatting and Style Resources

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4 CONCLUSION

Although a conclusion may review the main points of the paper, do not replicate the abstract as the conclusion. A conclusion might elaborate on the importance of the work or suggest applications and extensions. Authors are strongly encouraged not to call out multiple figures or tables in the conclusion—these should be referenced in the body of the paper.

ACKNOWLEDGMENT

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